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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/779,632	02/18/2004	Theodore R. Zeigler	000002-001	9087	
44012 WRB-IP LLP	7590 09/04/2008		EXAMINER		
1217 KING ST		BARTOSIK, ANTHONY N			
ALEXANDRIA	A, VA 22514		ART UNIT	PAPER NUMBER	
			3635		
			NOTIFICATION DATE	DELIVERY MODE	
			09/04/2008	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

HARRY@WRB-IP.COM angie@wrb-ip.com

Office Action Summary		Applica	tion No.	Applicant(s)  ZEIGLER, THEODORE R.		
		10/779,	632			
		Examine	er	Art Unit		
		ANTHO	NY N. BARTOSIK	3635		
Period fo	The MAILING DATE of this communi or Reply	cation appears on t	he cover sheet with the	correspondence ad	ddress	
A SH WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA Issions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum stare to reply within the set or extended period for reply eply received by the Office later than three months at ad patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and will, by statute, cause the ap	THIS COMMUNICATION EVENT, however, may a reply be to will expire SIX (6) MONTHS from the polication to become ABANDON	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).	·	
Status						
2a)⊠	Responsive to communication(s) filed.  This action is <b>FINAL</b> .  Since this application is in condition to closed in accordance with the practice.	b)⊡ This action is for allowance excer	ot for formal matters, pr		e merits is	
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)□ 8)□	Claim(s) <u>1-25</u> is/are pending in the a 4a) Of the above claim(s) <u>23 and 24</u> is Claim(s) <u>17-19</u> is/are allowed. Claim(s) <u>1-16 and 20, 21, 22, and 25</u> Claim(s) is/are objected to. Claim(s) are subject to restrict	s/are withdrawn fro				
	on Papers					
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or the accepted or the drawing (s) the correction is requ	be held in abeyance. So ired if the drawing(s) is of	ee 37 CFR 1.85(a). ojected to. See 37 C	, ,	
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2)  Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P' nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	ГО-948)	4) Interview Summar Paper No(s)/Mail [ 5) Notice of Informal 6) Other:	Date		

Art Unit: 3635

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 112

1. Claim 25 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification lacks proper disclosure pertaining to the compression forces and how they are increased and/or decreased during use.

### Allowable Subject Matter

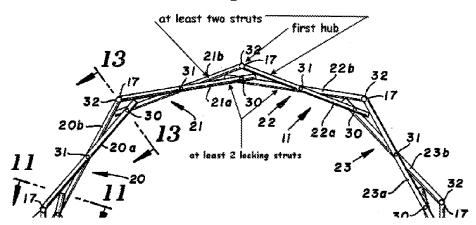
2. Claims 17-19 are allowed.

#### Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-16, 20-22, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Trochman (US 4,193,414) in view of Price (US 2003/0164185 A1) and Zeigler (US 5,274,980).

Art Unit: 3635

## Modified Fig. 6 of Trochman



5. In Re claim 1, Figure 4 and 6 of Trochman teach a first hub (32); at least two struts (21b, 22a from Fig. 6 above) pivotably connected at first ends thereof to the first hub (32) and movable relative to each another between a folded position and an expanded position; a tension member (Figs. 1 and 4; Col. 6 Lines 43-49) **adapted** to limit pivotable movement of the at least two struts such that, when in the expanded position, the at least two struts define an angle of less than 180 degrees as well as at least two locking struts (see Fig. 6 above) pivotably connected at first ends thereof (30), to connection points (see Fig. 6 above) on respective ones of the at least two struts...

Trochman fails to teach a locking hub, however Price teaches the use of locking hubs. Figures 4 and 5 as well as Paragraphs 71 and 72 of Price teach the use of locking hubs (208) in collapsible structures for structural rigidity and in keeping struts in their desired positions. It would have been obvious to one skilled in the art at the time of the invention to substitute the hub (30) of Trochman with locking hub as taught by Price in order to add structural rigidity.

Art Unit: 3635

Trochman also lacks the at least two locking struts being pivotably connected at seconds ends. Trochman does however; teach a pivot point on the strut. It would then be obvious to one skilled in the art of collapsible tent structures at the time of the invention to make strut (21a & 22a) two separate struts connected to the at least two struts at the pivot point (31). This sort of strut configuration is taught in Zeigler.

Figure 3A and Col. 8 Lines 27-34 of Zeigler teaches two struts pivotably attached to a single strut. One skilled in the art would motivated to modify the single locking strut of Trochman and making it two separate struts as taught in Zeigler for many reasons. One such motivation would be, by separating the single locking strut into two separate struts the user would be able to replace/repair one strut without significantly weakening the structure thereby preventing failure.

Concerning the teaching of the struts of Zeigler being pined at separate places along the strut (232), Col. 8 Lines 27-34 in Zeigler teach placing the pivot points anywhere along strut (232). Furthermore, one skilled in the art at the time of the invention would have been motivated to pin the struts as taught by Zeigler at the same location in order to minimize hardware leading to lower costs and shorter assembly time.

It therefore, would have been obvious to one skilled in the art at the time of the invention to modify Trochman by making strut 21a into two separate struts as taught by Zeigler for the reasons stated above.

Art Unit: 3635

6. In Re claim 2, Figure 4 and Column 6 Lines 43-50 of Trochman discloses the tension member including a wire.

- 7. In Re claim 3, Column 6 Lines 43-50 of Trochman disclose wire that is attached to the at least two struts. Since applicant has not specified the location of the attached wire, examiner is considering the wire attached to the eyebolt in Trochman to also be attached to "the at least two struts" by the fact that the entire structure is rigidly connected.
- 8. In Re claim 4, Figure 4 and Column 6 Lines 43-50 of Trochman discloses a tension member including a cover (12) attached to the collapsible structure.
- 9. In Re claim 5, Figure 4 of Trochman discloses a tension member including a base (17, 18) to which the collapsible structure is attached.
- 10. In Re claim 6, the combination of Trochman, Price, and Zeigler, in order to function, teaches the limitations of claim 6.
- 11. In Re claim 7, when combination is expanded from the folded position to its usable position, the angle as defined by claim 7 changes, therefore at some point in the expansion the limitations of claim 7 will be met.

Art Unit: 3635

12. In Re claim 8, when combination is expanded from the folded position to its usable

position, the angle as defined by claim 7 changes, therefore at some point in the

expansion the limitations of claim 7 will be met. Furthermore, a change of size is

generally recognized as being within the level of ordinary skill in the art. MPEP 2144.04.

13. In Re claim 9, the combination of references Trochman and Price teach locking

struts that are each adapted to pivot through an angle greater than 90 degrees relative

to the locking hub when the locking struts are moved between a folded position and a

locked position. Furthermore, a change of size is generally recognized as being within

the level of ordinary skill in the art. MPEP 2144.04.

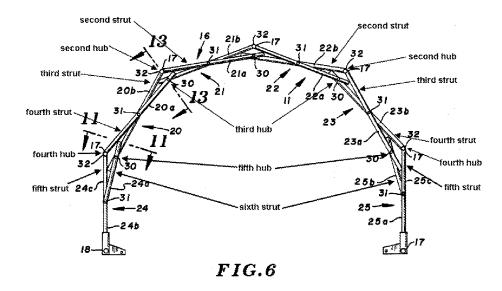
14. In Re claim 10, Figure 6 of Trochman discloses at least three struts.

15. In Re claim 11, Figure 6 of Trochman discloses at least four struts.

Modified Figure 6 of Trochman

Application/Control Number: 10/779,632

Art Unit: 3635



- 16. In Re claim 12, Figure 6 of Trochman (see modified figure 6 above) discloses at least two second struts pivotably connected at first ends thereof to respective ones of the at least two struts, at least two second hubs, second ends of the at least two second struts being pivotably connected to respective ones of the at least two second hubs, at least two third struts, first ends of the at least two third struts being pivotably connected to respective ones of the at least two second hubs, at least two third hubs, second ends of the at least two first struts being pivotably connected to respective ones of the at least two furth struts, first ends of the at least two fourth struts being pivotably connected to respective ones of the at least two third hubs and being pivotably connected to respective ones of the at least two third hubs and being pivotably connected to respective ones of the at least two third struts.
- 17. In Re claim 13, the combination of references Trochman and Price teach at least two first struts and the at least two fourth struts are each **adapted** to pivot through an angle greater than 90.degrees when the at least two first struts and the at least two

Art Unit: 3635

fourth struts pivot relative to respective ones of the at least two third hubs between a folded position and a locked position.

- 18. In Re claim 14, Figures 4 and 6 of Trochman disclose at least two second struts that are pivotably connected to respective ones of the at least two struts at the connection points on respective ones of the at least two struts.
- 19. In Re claim 15, the combination of Trochman and Zeigler (Col. 8 Lines 27-34) disclose at least two second struts that are pivotably connected to respective ones of the at least two struts at points between the connection points and the second ends of respective ones of the at least two struts.
- 20. In Re claim 16, the combination of Trochman and Price has been discussed above and disclose the limitations from which claim 12 depends. Examiner's interpretation of the structure set forth in claim 12 is such that the structure in claim 1 is duplicated and then attached at a central hub, thereby creating a collapsible structure square in shape. Figure 1 of Price teaches a square shaped collapsible structure utilizing a first hub (210). It would have been obvious to one skilled in the art at the time of the invention to modify the shape of Trochman to include a square structure by substituting the fist hub (32) of Trochman with the first hub as taught in Price in order to provide a more rigid structure.

Art Unit: 3635

21. In Re claim 20, Figure 6 of Trochman discloses the limitations of claim 20; see modified Figure 6 of Trochman above.

- 22. In Re claim 21, Figure 6 of Trochman discloses at least two third struts and the at least two sixth struts being each **adapted** to pivot through an angle greater than 90.degrees when the at least two third struts and the at least two sixth struts pivot relative to respective ones of the at least two fifth hubs between a folded position and a locked position.
- 23. In Re claim 22, Figure 4 and 5 of Price disclose a stop (236) for preventing the locking hub from moving beyond a locking position in the expanded position.
- 24. In Re claim 25, the combination of Trochman, Price, and Zeigler teach the limitation of claim 25 in so much as the limitations of claim 25 are considered functional. The claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended function, it meets the limitations of the claim. Since the above combination is capable of functioning as claimed it satisfies the limitations of the claim.

Art Unit: 3635

### Response to Arguments

25. Applicant's arguments filed 3/17/2008 have been fully considered but they are not persuasive.

- 26. <u>In regards to Applicant's argument that</u> new claim 25 does not contain new matter. The Examiner respectfully disagrees. Nothing in the disclosure mentions the compressive forces placed upon any of the struts or how they are affected by the movement of the structure. The claims remains rejected.
- 27. In regards to Applicant's argument that the references Price, Gillis, or Zeigler '980 do not show the claimed structure. As set forth in the rejection, the Examiner has indicated that the claims are being rejection upon 35 USC § 103, in that not one reference "shows" each element or that every element is exactly disclosed in one of the listed references, but that through using the teachings, suggestions, and motivations of the listed references one of ordinary skill in the art would have found it obvious to arrive at the claimed structure. Applicant is correct in the statement that the struts of Price connect at the center points, that deficiency was addressed in the previous office action. It was then and remains that separating the strut of Price would have been obvious in view of Zeigler '980 (see rejection to claim 1 above). Rational for supporting such modification was also provided. Based upon the reasoning's set forth above and in the previous office action, claim 1 remains rejected.

Art Unit: 3635

28. <u>In regards to Applicant's argument that</u> the language of claim 6 sufficiently defines the invention over the prior art. As suggested in the previous office action, the combination as provided by the Examiner was ultimately resulted in the claimed limitations of claim 6. The Examiner was did not state that solely the Trochman reference disclosed the claim 6 limitations. To the contrary, the Examiner described that when such a combination was made in relation to claim 1, one of ordinary skill in the art would have dimensioned the at least two struts longer than the at least two locking struts in order for the combination to function properly.

Secondly, "When the reference does not disclose that the drawings are to scale and is silent as to dimensions, arguments based on measurement of the drawing features are of little value." See Hockerson-Halberstadt, Inc. v. Avia Group Int'l, 222 F.3d 951, 956, 55 USPQ2d 1487, 1491 (Fed. Cir. 2000). MPEP 2125.

29. <u>In regards to Applicant's argument that</u> the applied documents do not disclose or suggest the arrangement of claim 25. The Examiner respectfully disagrees. The reasons for the rejection of claim 25 have been set forth above as well the previous office action. The language of claim 25 is limited to that of functional language which is addressed differently than structural limitations (See rejection to claim 25). For the reasoning set forth in the rejection, Applicant's remarks are not considered persuasive and claim 25 remains rejected.

Art Unit: 3635

#### Conclusion

30. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY N. BARTOSIK whose telephone number is (571)270-3112. The examiner can normally be reached on M-F 7:30-5:00; E.D.T.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3635

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard E. Chilcot, Jr./ Supervisory Patent Examiner, Art Unit 3635

/A. N. B./ Examiner, Art Unit 3635